

# Special Issue

## Terahertz Sensing and Imaging

### Message from the Guest Editors

Terahertz (THz) sensing and imaging methods have considerably evolved over the past decade, driven by a wide range of highly anticipated applications. This Special Issue of Applied Sciences will be dedicated to the development of THz imaging systems, with their components, their applications, and their methods. Areas of interest include (but are not limited to):

Source developments: pulse and continuous wave radiations;

Sensing methods: electric field measurements, energy measurements, optical sampling, signal amplification, near-field sensing, and light-matter interactions;

Analysis methods: image reconstruction, interferometry, computational imaging;

Applications: spectroscopy, 2D and 3D imaging.

**Keywords:** pulse and continuous terahertz (THz) wave radiations; THz electric field measurements, energy measurements, optical sampling, signal amplification, near-field sensing, light-matter interactions; ultrafast THz spectroscopy; image reconstruction; interferometry; computational imaging; 2D and 3D THz imaging;

---

### Guest Editors

Prof. Dr. François Blanchard

Département de génie électrique, École de technologie supérieure, Montréal, QC H3C 1K3, Canada

Asst. Prof. Dr. Kosuke Murate

Department of Electronics, Graduate School of Engineering, Nagoya University, Nagoya 464-8603, Japan

---

### Deadline for manuscript submissions

closed (31 July 2020)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 6.1



[mdpi.com/si/32235](https://mdpi.com/si/32235)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 6.1



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)